7200134

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

J. Joordens' Zaadhandel B. V.

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF ACCURACY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, MPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THE THE THE THE THE PLANT VARIETY PROTECTION ACT.

UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS F CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ORCHARDGRASS

'Dolcea'

In Lestimony Watercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 15th day of March in the year of our Lord one thousand nine hundred and seventy-nine

Bob Ben land

Secretary of Agriculture

Allosh:

Sumer LILXULS Commissioner Plant Variota Protection Ollico

Plant Variety Protection Office Grain Division

Agricultural Marketing Services

FORM APPROVED OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

	2. KIND NAME		FOR OFFICE	AL USE ONLY	
DESIGNATION	1	0	PVPO NUMBER	/	
DOLCEA	Unchard	grass xc	12 13	TIME	
3. GENUS AND SPECIES NAME	2	otfinical)	FILING DATE 4/5 2/72	1 /o	A.N
rchardgrass	5. DATE OF DETER	MINATION	FEÉ RECEIVED	CHARGES	P.N
actylis Glomerata	8/25/67	as pur letter	\$ 750.00		
6. NAME OF APPLICANT(S)	7. ADDRESS (Street a	and No. or R.F.D. No.	, City, State, and ZIP	8. TELEPHON	
.Joordens Zaadhandel N.V	7 '	van Loonstra	aat 40	503-	Š
	VENLO/BLE	RICK.		620-67	177
-	The Nether	rlands			
9. IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Comporation, partnership		10. STATE OF INC	DRPORATION	11. DATE OF PORATIO	
incorporation (N.V.) I		closed far	nely incorpora tion	3 Oct.	193
12. Name and mailing address of appli	cant representative(s), if any, to serve		nd receive al	pape
	n 17920 in	- HAVEL DOW	C. I AKE OSWEC	a 170 9	1034
LANDIS SEED (WEST) LTI) 11130 E.FR	LE MANAGO CIRCA	e, the source		
The Landis Company Inc	P.O.Box 38	5 - WAUPACA	Wisconsin 54	.981 U.S.	A.
- .				- 8/29/78	
	· · · · · · · · · · · · · · · · · · ·		i, as per	letter 5 + 8/18	3178
13. CHECK BOX BELOW FOR EACH ATTAC	HMENT SUBMITTED:	•			
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12A. Exhibit A, Origin and Bre			ion j2, P.L. 31-3//)		
D D 2500 letter o X 128. Exhibit B, Botanical Des	cription of the Varie	ty			
O Caro Fubible C Objective Devi					
120. Exhibit C, Objective Desc	-	τy			
12D. Exhibit p, Data Indicative	~ /· 2 / / W				
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E	e of Novelty				
X 12E. Exhibit E, Statement of the	e of Novelty	t's Ownership			
X 12E. Exhibit E, Statement of th	e of Novelty		ill be deposited upon	request hefor	e jsen
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The applicant declares that a viable ance of a certificate and will be repl (See Section 52, P.L. 91-577).	e of Novelty ne Basis of Applican sample of basic seedenished periodically	d of this variety w	th such regulations as	may be appli	icable.
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INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$50.00 fee to U.S. Dept. of Agriculture, Consumer and Marketing Service, Grain Division, Hyattsville, Maryland 20782. Retain one copy for your files. All items on the face of the form are self-explanatory unles noted below.

ITEM

- 5 Insert the date the applicant determined that he had a new variety.
- 12a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.
- 12b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.
- 12c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.
- 12d Provide complete data indicative of novelty. Seed and plant specimens may be submitted and seeds submitted may be sterile. Where possible, include photographs of plant comparisons, chemical tests, etc.
- 12e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

Exhibit A.

There are 8 lines included in the cross.

The lines were plants without silicon teeth on the leaves and stems.

The criteria of selection were yield and softness of leaves and stems.

The type of variants:

There were plants without softness of leaves.

Plants with an other heading date.

Plants with an other plant width and an other growth habit.

The variety DOLCEA has for 95-100 % plants without silicon teeth.

The variety has been tested in Holland and Germany and during several years they have tested the variety on stability.

Enclosed a copy of the bundessortenamt in Germany where Dr. Beuster granted the stability for the variety Dolcea for two years 1972 and 1973.

In Holland the variety has also plant breeders rights so stability and homogenity are granted.

The original plants are in the field on our breedingfarm and from this plants we produce-breeder seed and from breeder—seed we produce foundation—seed.

From foundation—seed we produce the registeres—seed and from the registered—

From foundation-seed we produce the registeres-seed and from the registered-seed we produce certified-seed.

Before we use the breeder-seed or other basicseed it is tested by the N.A.K. Wageningen for stability and homogenity.

Statment of stability.

The variety DOLCEA is tested in Holland and Germany during several years.

All the samples were found within the limit, regarding:

- date of ear emergency.
- plant height.
- plant width.
- growth habit.
- broadness of leaves.



J. JOORDENS' ZAADHANDEL B.V.

Postbus 7823

5995 ZG Kessel LB

AMROBANK NV VENLO NUMMER 48.40.40.480 POSTREKENING 1031819 K.V.K, VENLO NR 1006 TELEX NUMMER 58412 TELEFOON 04762-1888

United States Department of Agriculture Attn to mr.Lary W.Dosier

<u>Beltsville, Maryland 20705</u>.

U.S.A.

p.i

KESSEL (Holland), 12-5-1978,

Dear Mr. Dosier,

As you know the variety Dolcea is a dutch variety and i cannot give you more information about resistance to Mastigosporium rubicosum in comparison to the varieties Clatsop and Ina.

In Europe there are no trials with these two varieties so i cannot give you the information.

Also we do not know the variety 0X-1.

Further information.

The date of determination for the variety Dolcea is 25-8-1967.

Exhibit A.	1972	1973
Plants without sofness of leaves	0,6%	0,5%
Plants with an other heading-date	0,5 %	0,4%
Plants with an other plantwidth and an o	ther	
growth habit	0,3%	0,3%

Exhibit B.

The information about the differens between the variety Tenderbite and the variety Dolcea comes from the R.I.V.O. Wageningen.

The technical report in witch the variety Dolcea becomes breeders rights, they use the leafwidth and growth habit as characteristics to prove that the variety Dolcea differs from the variety Tenderbite.

We have now statistical analyses.

4

Durchschrift für: Sortenakte, Prüfabteilung, Sortenausschuß

BUNDESSORTENAMT Prüfabteilung 4	3011 Bemerod	le den 2	20. Dez. 1
Firma			
Feldsaaten Freudenberger			
GmbH & Co KG			
415 Krefeld 11			1
Postfach 104			***************************************
	•		1000
Betr.: Ergebnis der Registerprüfung 19	73		
Art: Knaulgras Sortent	pezeichnung: <u>Dolce</u> a	· K	enn-Nr. KL
Prüforte: Scharnhorst			
Pagietaranla	ach 1072 und 1072 (Auge		· '
Anbaudaten: Regiscolatitungs	jahr 1973		
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Untergruppe:	,		
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2) Merkmalsfeststellungen:		-	
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Statment of Novelty.

EXhibit B.

The variety Dolcea is a new variety bred by J.JOORDENS'ZAADHANDEL B.V.

The variety DOLCEA shows resemblence with the variety Tenderbite, these two varieties have leaves and stems without silicon teeth.

The variety Dolcea differs from Tenderbite by an earlier headingdate (Dolcea 48)

Tenderbite 50) and a finer leaf (Dolcea fineness of leaves 8, Tenderbite 6) The variety Dolcea has a more flat growth habit as the variety Tenderbite.

7

218. Kropany

INSTITUUT VOOR RASSENONDERZOEK VAN LAI DBOUWGEWASSEN

Rapport betreffende het ras Dolcea, L 2165

februari 1972

Asnvrage ingevolge artikel 18.2 Z.F.W.

Aanvrager

: J. Joordens' Zaadhandel N.V., Venlo-Blerick.

Datum van aanvrage : 6 september 1968.

Ontstaan

: Volgens het beschrijvingsblad is het ras als volgt ontstaan:

inkruising van eigen materiaal met klonen van de S.V.P.

Dolcea is een tamelijk laat doorschietend ras met blad zonder kiezeltandjes. Het ras toont in deze eigenschappen overeenkomst met Tenderbite, maar verschilt hiervan naast het smallere blad door een plattere groeiwijze.

Het is niet gebleken dat een ander dan de aanvrager het ras heeft gewonnen.

Conclusies :

- Dolcea wordt voor cultuurdoeleinden als een zolfstandige eenheid beschouwd
- 2. De aanvrager heeft het ras door eigen kweekarbeid gewonnen.

Der deskundige 📑

P. J. wie deh

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	lichtgroen					Helstenkamp:		

FORM GR-470-40 (6-77)

FORM APPROVED: OMB NO. 40-R3712

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN AND SEED DIVISION BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY ORCHARDGRASS (Dactylis glomerata L.)

NAME OF APPLICANT(S)		VARIETY NAME OR TE	MPORARY DESIGNATION
J.JOORDENS'ZAADHANDE	L B.V.	Dolcea	•
ADDRESS (Street and No., or R.F.D. No., Gry			FFICIAL USE ONLY
Kazernestraat 6 Bler	ick-Venlo. The Nether	Pland PVPO NUMBER 72 00 13	4
Place the appropriate number that descr (e.g. 0 9 9 when number is 99). In not apply [e.g. (shorter) (longer)]; the va decimal point. Characteristics described, Measured data should be for SPACED P termine plant colors; designate system us Ranges of values are valuable and may be	comparisons to Potomac (standard value 000 should only be used to it including numerical measurements PLANTS. Any recognized color far	rariety) be sure to strike out the ndicate that the varieties are eq , should represent those which 1, e.g. Royal Horticultural Colo	e comparative term which does to the symbol indicates a tare TYPICAL for the variety.
NOTE: FOR SINGLE PLANT DATA A MIN	IMUM OF 100 PLANTS IS SUGGESTED),	
1. PLOIDY:			
2 1 = DIPLOID (2N = 14)	2 = TETRAPLOID (2N = 28)	3 = OTHER (Specify)	
2. ADAPTATION (for forage or pasture): 1 = NORTHEAST 5 = SOUTH CENTRAL	2 - EAST CENTRAL 6 - PACIFIC NW.	3 = SOUTHEAST 7 = SOUTHWEST	4 = NORTH CENTRAL 8 = OTHER (Specify)
3. WINTER HARDINESS:		······································	
3-TENDER (HALLMARK)	5 = INTERMEDIATE (PENNLATE)	7 = HARDÝ (CHINOOK)	
4. MATURITY:		******	
4 SEASON: 1 - VERY EA		RLY (STERLING) 3 = MI RY LATE (MASSHARDY)	IDSEASON (PENNMEAD)
FLOWERING DATE (50% BLOOM) COM BEGINNING OF SPRING GROWTH COM	 - 	DAYS (東東東東東京) (LATE	
5. PLANT HEIGHT (From soil level to top	of panicle):		· · · · · · · · · · · · · · · · · · ·
1 3 2 CM. TALL; COMPARE	D TO POTOMAC	CM. (SHORTER) (TALLER	٦)
6. PLANT GROWTH TYPE (at maturity): in the autumn in year TYPE: 1-PROSTRATE (S-14	of sowing 2 - INTERMEDIATE	E (PENNMEAD) 3 = ERE	CT (BOONE)
PLANT WIDTH: DIAMETER ACROSS FOR PLANT HEIGH	S 2ND YEAR PLANT (TO TIPS OF OP) IT.	POSITE PANICLES). USE SAME (OR COMPARABLE PLANTS AS
CM. PLANT WIDTH; C	OMPARED TO POTOMAC	CM. (NARROWER) (WIDE	R)
2 1 - PANICLE TILLERS EXSERTE	ED BEFORE BARREN TILLERS	2 - PANICLE AND BARREN T	ILLERS EXSERTED TOGETHER
NO. PANICLE TILLER			
LEAF ELEVATION DATA: (USE SAM		TH CHARACTERS)	10
· · · · ·	RNODE BELOW PANICLE (USUALLY		
CM. TOTAL STRAW LENGT	H (TO LOWEST BRANCH OF PANICL	E)	

FOR1	M GR-470-40 (PAGE 2)	· · · · · · · · · · · · · · · · · · ·			
,.	CULM LEAF ATTITUDE	/AT 5 - 5 - V - 5 - 5 - 1		•	
3				2 - DROOPING (POTOMAC	
29	4-81	ELLOW GREEN (LATAR) LUE GREEN (SUMAS)	2 - GREEN (STERLING)	3 - DARK GREEN (POT	DMAC)
L	ا کے وہد ادالدہ 5(ایا 7) LEAF HAIRINESS (% PLANTS W	/ITH EACH SURFACE):			
	1 0 0 % GLABROUS	<u> </u>	¬		
	1 10 10 3 20000	<u> </u>	% SLIGHTLY PUBESC	ENT	% PUBESCENT
	0 8 мм. width (құқққ)	KAKAKAKAKAKKAW FLAG	LEAF); COMPARED TO PO	TOMAC	MM. (NARROWER (WIDER)
	2 0 2 MM. LENGTH	_የ ቊኯኇዹኇኇኇኇኇ ፞ኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯኯ	/ FLAG LEAF); COMPARE	D TO POTOMAC	MM. (SHORTER) (LONGER)
8.	PANICLE: (from lowest panicle	branch to tip of rachis):	<u> </u>		<u></u>
1	1 4 CM. PANICLE LENG	TH; COMPARED TO POTOMA	AC		(SHORTER) (LONGER)
İ	NO. PRIMARY BRAI	NCHES	NO. SPIKELETS OF LOW	EST GLOMERULE (SPIKE)	LET CLUSTER)
	CAST (SECONDARY CO	LOR) OF PANICLE: 1 = YI	ELLOWISH 2 = 8ROW	/N 3-PURPLE 4	- OTHER <i>(Specify)</i>
•	_	·		_	
	PANICLE TYPE: IN THE TAE				CLE TYPE IS DETERMINED
	BY THE ANGLES FROM THE V	ERTICAL FORMED BY (A)	THE RACHIS TIP AND (B) THE LOWEST BRANCH.	
			(A) ANG	LE OF RACHIS TIP (FROM	VERTICAL)
			O° (ERECT)	4.0	> 45°
		, [· · · · · · · · · · · · · · · · · · ·		/ 49
	(B) ANGLE OF	(< 30°)			
	LOWEST BRANCH (FROM VERTICÁL)	(30° – 90°)			
		(> 90°)			
	· · · · · · · · · · · · · · · · · · ·			.!	
9.	LEMMA (first spikelet of lowest LEMMA HAIRINESS (% PLANTS			•	
, [1 0 0 % GLABROUS	MIN EACH SURFACE):	¬		
		<u> </u>	% PUBESCENT		
1	LEMMA KEEL HAIRINESS (% P	LANTS WITH EACH SURFAC	:E): 		
į	% GLABROUS		% CILIATE		
[% PLANTS WIT	H NOTCHED LEMMA APEX		"·	MM. DEPTH APICAL NOTCH
·		'H LEMMA AWNS			
			•	<u> </u>	MM, TYPICAL AWN LENGTH
10	. SEED: 1.04 & 5/12/	76			
1.04	MM. WIDTH;	COMPARED TO POTOMAC		MM.	(NARROWER) (WIDER)
5.16		; COMPARED TO POTOMAC			(SHORTER) (LONGER)
	/ 6 U MG. PER 1,000	PURE SEED; COMPARED T	O POTOMAC	Мб.	(LIGHTER) (HEAVIER)
11	. DISEASE AND INSECT RESIS	TANCE (rate resistance 0-9,	Where 0 = not tested, 1 =	100% susceptible, and 9 = 10	00% resistant):
	POWDERY MILDEW (E	RYSIPHE GRAMINIS)		STRIPE	SMUT (<u>USTILAGO</u>
	-	ETOTRICHUM GRAMINICO	ι Δ\	<u> </u>	TRIIFORMIS)
	OTHER (Specify)	STANINICO	50 '		
					

ту был у тобы на воде вод от то и на проделение выполнение на постандарния на выполнение учение достанда на проделение и постанда на простанда на проделение и постанда на простанда на проделение и постанда на простанда на про

ESISTANCE OR SUSCEPTIBILITY	IS CLAIMED (FIRST BOX), IN	E INCLUDING SPECIES AND RA	CES WHERE KNOWN. IF GENERAL TION. (0 = NOT TESTED, 1—9 = 1009
JSCEPTIBLE TO 100% RESISTAN	T, RESPECTIVELY.		COMMENTS:
0 RUST			
0 STEM RUST (PUCCINIA C	GRAMINIS)		
O CROWN BUST (P. CORON	NATA)		
0 LEAF RUST (P. RUBIGO.	VERA)		1
0 STRIPE RUST (P. GLUMA	<u>(RUM)</u>		
		\	COMMENTS:
LEAF SPOT	• • • • • • • • • •		
0 LEAF STREAK (SCOLEC	OTRICHUM GRAMINIS)		
0 LEAF BLOTCH (STAGON	IOSPORA ARENARIA).		
0 PURPLE LEAF SPOT (ST.	AGONOSPORA MACULATA).		
0 SCALD (RHYNCHOSPOR	IUM ORTHOSPORIUM)		·
0 LEAF SPOT (ASCOCHYT	A GRAMINICOLA)		
0 LEAF SPOT (MASTIGOSE	PORTUM RUBICOSUM)		
0 LEAF SPOT (HELMINTH	OSPORTUM SPP.)		
0 LEAF SPOT (SEPTORIA	SPP.)		
O OTHER			
NDICATE THE VARIETY THAT N	NOST CLOSELY RESEMBLES 1	HE APPLICATION VARIETY FO	OR THE FOLLOWING CHARACTERS
CHARACTER	VARIETY	CHARACTER	VARIETY
			, , , , , , , , , , , , , , , , , , , ,

CHARACTER	VARIETY	CHARACTER	VARIETY
LEAFINESS		SEEDLING VIGOR	
WINTER HARDINESS		SEED SIZE	
FROST RESISTANCE		% LIGNIN	
SUMMER DORMANCY		PERSISTENCE	
HEAT TOLERANCE	 	TILLERING	

REFERENCES:

R. G. STAPLEDON, COCKSFOOT GRASS (DACTYLIS GLOMERATA L.) ECOTYPES IN RELATION TO THE BIOTIC FACTORS. JOURNAL OF ECOLOGY 16:71-104 1928.

P.F. PARKER, GENETIC VARIATION IN DIPLOID <u>DACTYLIS</u> III PANICLE, SPIKELET AND FLORET CHARACTERS. HEREDITY 24:383-405 1969.

COMMENTS:

Exhibit D.

The variety Dolcea has soft leaves and fine leaves, so the quality is very good. The variety has a lower persistance as the varieties Baraula($7\frac{1}{2}$) Dagoma(8) Dorise(8) and Lemba (8) .(Dolcea(6).

The leaves stems and flowers are for more than 95 % free of silicon teeth and are therefor very soft and patible.

The growthritme is slow in the beginning but later on the growth ritme is good. It needs a good fertilizer and performs best on a fertile soil.

The seed is total different from the seed of normal orchardgrass. It is shorter, thicker, and heavier than normal seed. The volume weight is about twice as normal.



J. JOORDENS' ZAADHANDEL N.V.

29 GRAAF VAN LOONSTRAAT 40 TELEFOON 04700-21545 (2 LIJNEN) POSTREKENING 1 03 18 19

VENLO-BLERICK

Telegram-adree: JOORDENS VENLO

Benkiere: BANK VAN HAFFMANS & STEEGH N.V., VENLO
AMSTERDAM - ROTTERDAM BANK N.V., VENLO

Erkend Selectiobedrijf voor Landbouwzaden

VENLO-BLERICK, HOLLAND

EXHIBIT E: Statement of the Basis of applicant's Ownership.

Hereby we declare that the variety of Orchard grass "DOLCEA" is created on our own breeding station by Ingenieur Marc Joordens and is owned totally and allone by our company.

J. JOORDENS' ZAADHANDEL N.V. 2e Graaf van Loonstraat 40 Verlo-Blerick, Holland.